

Angular

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- A framework for building client-applications in HTML, CSS and JavaScript / TypeScript.

- Angular JavaScript is an open source JavaScript framework that is used to build web applications.

- Angular JS is developed by Google.

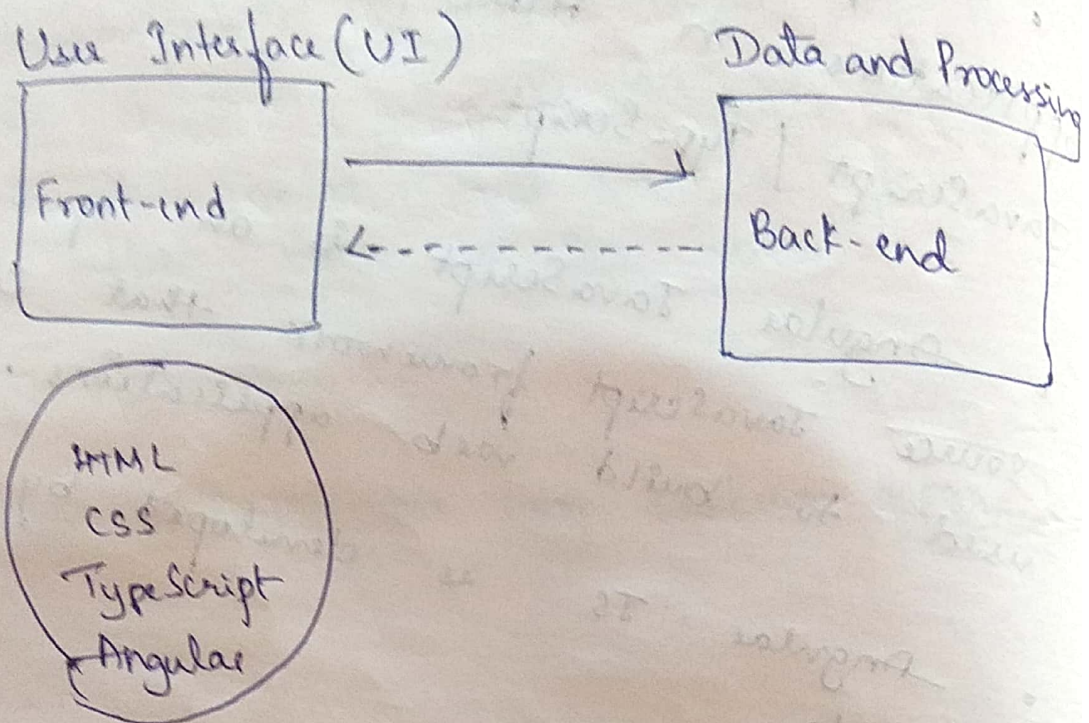
Benefits of Using Angular :-

- It gives our application clean and loosely couple structure that is easy to understand and easy to maintain.

- It also brings in a lot of utility code that we can reuse in various application.

- Application build with angular are more testable.

Architecture of angular Applications :-



- A lot of modern applications have at least two parts: a front end and a back end.
- Front end, also called as client, is the part that runs in a web browser and this is what users see and interact with so.
- Front end essentially includes the user interface or UI of an application. We use HTML, CSS, TypeScript, and Angular to build a front end.

- The back-end is responsible for storing the data and doing any kind of processing.

- Our front end or the client app talks to the back end to get or save the data.

- In back-end we implement the business logic of the application like calculating the tax & shipping cost based on various parameters

- Front-end ^{or client} is all about the presentation. In front we have HTML templates, Presentation logic of our application.

This logic is all about displaying the data and responding to user action like what should if the user clicks on the button.

Your First Angular App :-

- nodejs.org (install) :- It is basically to execute javascript code outside the browser.

Download LTS Recommended for Most Users
v6.11.0 LTS (min - 6.9 version)

- open up the terminal
\$ node --version [windows / Mac]

- Once you have installed node. (npm)
Now we gonna use ^{tool called} Node Package Manager

to install third-party libraries!

- One of these libraries we're going to install in this lecture is angular CLI which stands for Command-line Interface (CLI)

- It's a command-line tool that we use to create a new angular project or generate some boilerplate code as well create deployable packages

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- Now in terminal
\$ npm install -g @angular/cli
 ↓
 global name of the package

why -g? - If you don't put -
angular CLI will be installed
only in the current folder and
it won't be accessible anywhere
else.

- If you use mac, you have
to put sudo at the beginning
of this command to execute it
as an administrator.

\$ sudo npm install -g @angular/cli

↓
this installation will take little
bit of time

- we have installed angular/cli
to ensure that go to command
prompt.

ng --version

Angular CLI

NEW PROJECT
Now we will create new angular
project

cmd
\$ ng new hello-world // (creating a project)

This generates a bunch of files
and folders.

> Our project is created

> Now we need an editor :- i.e. visual
studio

project created successfully ✓

- download ^{code} visual studio .com

if you don't like vs you can
use sublime, atom or any other

- To load our application we type

\$ ng serve

http://localhost:4200

IMPORTANT NOTES

- open chrome

local host : 4200

Your first Angular app is
successful.